IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

THE APPLICATION OF:

KANK P. UCKERT ET. AL.

CASE NO.: PE0667USDIV

APPLICATION NO.: 10/809,737

CONFIRMATION NO.: 8176

GROUP ART UNIT: 1714

EXAMINER: UNKNOWN

FILED: MARCH 25, 2004

FOR: ELECTROACTIVE FLUORENE COPOLYMERS AND DEVICES MADE WITH

SUCH POLYMERS

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

In compliance with 37 CFR 1.97 and 1.98, Applicants bring to the attention of the U.S. Patent and Trademark Office information listed on the enclosed PTO/SB/08. A copy of the information is also enclosed.

Benefit of the earlier filing date of U.S. Patent Application No. <u>10/137,898</u>, filed <u>May 2, 2002</u> is claimed under 35 U.S.C. 120 for the above-referenced application and only copies of information not previously made of record in the parent are enclosed.

Should any fee be required in connection with the filing of this Information Disclosure Statement, please charge such fee to Deposit Account No. 04-1928 (E. I. du Pont de Nemours and Company).

Respectfully submitted,

MARYANN CAPRIA

ATTORNEY FOR APPLICANTS

Registration No.: 32,659 Telephone: (302) 992-3749 Facsimile: (302) 892-7949

Dated:

Enclosures

PTO/SB/08A (08-03)

Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet of

	Complete if Known	
Application Number	10/809,737	
Filing Date	March 25, 2004	
First Named Inventor	Frank P. Uckert et al.	
Group Art Unit	1714	
Examiner Name	Unknown	
Attorney Docket Number	PE0667USDIV	

			_	U.S. PATE	NT DOCUMENTS	
Examiner Initials *	Cite No.1		cument Number - Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		US -	4,508,639	04-02-1985	Camps et al.	
		US -	5,621,131A	04-15-1997	Kreuder et al.	
		US -	5,814,244A	09-29-1998	Kreuder et al.	
		US -	5,821,002A	10-13-1998	Ohnishi et al.	
		US -	5,856,434A	01-05-1999	Stem et al.	
		US -	5,962,631A	10-05-1999	Woo et al.	
			5,900,327A	05-04-1999	Pei et al.	
		US -	6,309,763 B1	10-30-2001	Woo et al.	
		US -	6,353,083 B1	03-05-2002	Inbasekaran et al.	
		US -	6,541,602 B1	04-01-2003	Spreitzer et al.	
		US -	6,653,438 B1	11-25-2003	Spreitzer et al.	
		US -	6,605,373 B1	08-12-2003	Woo et al.	
		US -				
		US -				
		US -				
		US -				
		US -				
		US -				
		US -				
		US -				

		FOREIG	N PATENT D	OCUMENTS		
Examiner Cite	Cite	Foreign Patent Document	Publication Date	Name of Patentee or	Pages, Columns, Lines, Where Relevant Passages or Relevant	
Initials*	No.1	CountryCode ³ Number ⁴ Kind Code ⁵ (if known)	MM-DD-YYYY	Applicant of Cited Document	Figures Appear	Тв
		EP 0 259 229 B1	09-02-1987	Makromolekulare Chemie		
		EP 0 956 312 B1	01-29-1998	JSR Corporation		
		WO 01/07502 A2	02-01-2001	Cambridge Display Techn		

Examiner Signature	Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto. or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PTO/SB/08B (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE perwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Complete if Known

Application Number 10/809,737

Filing Date March 25, 2004

First Named Inventor Frank P. Uckert et al.

Group Art Unit 1714

Examiner Name Unknown

Attorney Docket Number PE0667USDIV

(use as many sheets as necessary)

Sheet 2 of 2

		OTHER PRIOR ART NON PATENT LITERATURE DOCUMENTS	
Examiner Initials *	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
		DE 19846767, Partially conjugated polymer useful as an organic semiconductor or an electroluminescence material, and for display elements in television monitor and illumination technology contains fluorene building units, Abstract, 06-13-2000, Aventis Res & Technologies Gmbh	
		JP 2000319272, (Diarylamino) furan analogues with improved stability, useful pharmaceutical intermediates and electron hole transport or photosensitive materials, Abstract, 04-21-2001, Tosoh Corp	
		JP 08157575, Carrier transport polymers – useful as carrier transport materials in organic thin film electroluminescence devices, Abstract, 10-25-1996, Toppan Printing Co. Ltd.	
		JP 2000143778, Display element such as cathode ray tube and light emitting diode, comprises specified light emitting compound as color developing materials, Abstract, 10-06-2000, Samsung Denkan KK	
		JP 10273522, Production of phenylene group-containing copolymers – comprises copolymerizing phenylene group-containing compounds in presence of catalysts containing transition metal compounds, Abstract, 01-13-1999, Nippon Gosei Gomu KK	
		JP 10273521, Production of phenylene group-containing copolymers – comprises copolymerizing phenylene group-containing compounds in presence of catalysts containing transition metal compounds, Abstract, 12-23-1999, Nippon Gosei Gomu KK	
		JP 03028220, Electrochromic elements for display or optical shield glass – contg. film of polyphenylene polymer derived from fluorene, Abstract, 09-28-1993, Idemitsu Kosan Co. Ltd.	
		JP 03017120, Polyphenylene polymers used as conductive material or display material are produced by chemical or electrochemical-oxidative polymerizing of specified fluorene derivs, Abstract, 09-28-1993, Idemitsu Kosan Co.	
		JP 02269734, New polyphenylene-type polymer prepd. By oxidn. Polymerization of fluroene derive., Abstract, 09- 28-1993, Idemitsu Kosan Co. Ltd.	
		KR 99057430, Fluorene-based alternating statistical copolymer containing multi-luminescence groups and electroluminescence device using the same, Abstract, 07-15-1999, Korea Adv Inst Sci & Technology	

Date Considered	
-	Date Considered

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PTO/SB/08A (10-01)

Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE as are required to respond to a collection of information unless it contains a valid OMB control number.

& TRADY

Substitute for form,1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet of

	Complete if Known	
Application Number	10/137,898	
Filing Date	MAY 2, 2002	
First Named Inventor	FRANK P. UCKERT ET AL.	
Group Art Unit	1711	
Examiner Name	UNKNOWN	
Attorney Docket Number	PE0667 US NA	

F	C#4	Do	cument Number	Publication	n Date		Name of Patentee or	Pages, Columns, Lines, Whe	ene.
Examiner Initials	No.1	1	- Kind Code ² (if known			. Apı	olicant of Cited Document	Relevant Passages or Relevant Passages Appear	ant
k		US-	5,777,070 A	07/07/	1998	IN.	IBASEKARAN ET AL.		
Loz		US -	5,998,045 A	12/07/	1999		CHEN ET AL.		.,
		US-							
		US-			-			DECE	-11
		US-						NECE	\mathbf{V}
		US-							
		US -						AUG 2 6	200
		US-							700
		US-			_			TO 47	70
		US-			. 1			10 17	Q
		US-							
		US-				7		- 3	
		US-				7			-
		US-	-					17	
		US -	_			1	\.	SEP. 7700	$\overline{}$
		US-							
	Ī	UŞ-					<u> </u>	2 0	2
		US -						= 2	m
		US-						2700	0
		US-						6	
								Ä	
				FOREIG	GN P	ATENT [OCUMENTS	·	
		Fo	oreign Patent Docume					Pages Columns, Lines, Where	\Box
Examiner Initials*	No.	CountryCo		d Code ⁵ (ff known)	MM-D	ation Date	Name of Patentee or Applicant of Cited Document	Deloumet Descomes or Boloumet	Т ₆
40		wo	99/54943	A1	10/2	8/1999	DOW CHEMICAL CO.		
Lec		wo	00/53656	A1	09/1	4/2000	CAMBRIDGE DISPLAY TECHNOLOGY LTD		
Le		wo	00/55927	A1	09/2	1/2000	CAMBRIDGE DISPLAY TECHNOLOGY LTD		
					\ _				밀
				·			· · · · · · · · · · · · · · · · · · ·		
						<u> </u>			빝
									빌
- 1	1		1 1	1			*	1	111

U.S. PATENT DOCUMENTS

Date Considered

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Examiner Signature

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 801.04. ³ Enter Office that issued the document, by the tow-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Eraperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.





PTO/SB/08A (10-01)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

bstitute for form 14 september

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

	Inse	as many	sneets	85	necessary	1
ant .	1		T	\neg	4	•

	Complete If Known	
Application Number	10/137,898	
Filing Date	MAY 2, 2002	
First Named Inventor	FRANK P. UCKERT ET AL.	
Group Art Unit	1711	
Examiner Name	UNKNOWN	
Attorney Docket Number	PE0667 US NA	

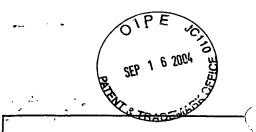
				U.S. PAT	ENT DOCUMENTS		
Examiner Initials *	Cite No.1	Document Number · Number - Kind Code ² (# known)		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Whe Relevant Passages or Releva	
		US-	5,708,130 A	01/13/1998	WOO ET AL.	Figures Appear	
102		US-	6,169,163 B1	01/02/2001	WOO ET AL.	-	
100		US-	6,204,515 B1	03/20/2001	BERNIUS ET AL.		
		us-		1	· · · · · · · · · · · · · · · · · · ·		
		US-		. \			
		US -					
		US -					
		US -					
		US -		1			
		US-					
		US-			1		
		US -					
		US-					
							
		US-					
		US -					
		US -					
		US -					
		US-					
	- T	US -					

		Foreign	Patent Doc	ument	GN PATENT D	COUNTENTS	 	_
	Cite No.1	CountryCode ³	Number ⁴	Kind Code ⁵ (# known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	١,
·								Ī
						PEO		T
						HEU	LIVED	Ι
	_			 				_[
						SEP 2	6 2002	
								÷
		•					700	È
								Ī
xaminer					, 1			_

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the tow-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁶ Kind of document by the appropriate symbols asindicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.



Notice of References Cited

Application/Control No. 10/137,898	Applicant(s)/Patent Under Reexam Uckert et al.		
Examiner Ling-Siu Choi	. Art Unit 1713	Page 1 of 1	

U.S. PATENT DOCUMENTS

	Document Number Date Country Code-Number-Kind Code MM-YYYY Name			Classification ²	
A	5,621,131	4/1997	Kreuder et al. 5	58 46	
В	5,962,631	10/1999	Woo et al. 5	28 397	
С					
D					
E		· · · · · · · · · · · · · · · · · · ·	-		
F					
G					
H.				· · · · · · · · · · · · · · · · · · ·	
i		,			
J	7				
к					
L					
м					

FOREIGN PATENT DOCUMENTS

L		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification ²
	N					
	0					·
	P					
	۵					
	R		·	- .		
	s			, .		
	Т		-	-		

NON-PATENT DOCUMENTS

L		Include, as applicable: Author, Title, Date, Publisher, Edition or Volume, Pertinent Pages
	U	Miller et al., Nonlinear Optics, 20, 269-295(1999).
	v	
	w	
	x	

^{*} A copy of this reference is not being furnished with this Office action. See MPEP § 707.05(a). 1 Dates in MM-YYYY format are publication dates.

This Page is Inserted by IFW Indexing and Scanning Operations and is not part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

□ BLACK BORDERS
 □ IMAGE CUT OFF AT TOP, BOTTOM OR SIDES
 □ FADED TEXT OR DRAWING
 □ BLURRED OR ILLEGIBLE TEXT OR DRAWING
 □ SKEWED/SLANTED IMAGES
 □ COLOR OR BLACK AND WHITE PHOTOGRAPHS
 □ GRAY SCALE DOCUMENTS
 □ LINES OR MARKS ON ORIGINAL DOCUMENT
 □ REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY

IMAGES ARE BEST AVAILABLE COPY.

OTHER:

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.